#### PHYSICAL COLLOCATION BELL ATLANTIC : NEW YORK FCC - 11

21-Aug-01

#### DC POWER - WEIGHTED SUMMARY

### BASED ON WEIGHTED AVERAGE EXPECTED LIVES OF THE POWER EQUIPMENT MELDED FOR LESS THAN 60 AMPS AND GREATER THAN 60 AMPS

	<u>A</u>	<u>B</u>	<u>c</u>
	ITEM	SOURCE	BA - NY
1	MONTHLY RATE LESS THAN OR EQUAL TO 60 AMPS	COST STUDY	\$23.86
2	WEIGHTING FACTOR		0.75
3	WEIGHTED MONTHLY RATE LESS THAN OR EQUAL TO 60 AMPS	LINE 1 X LINE 2	\$17.89
4	MONTHLY RATE GREATER THAN OR EQUAL TO 60 AMPS	COST STUDY	\$23.76
5	WEIGHTING FACTOR		0.25
6	WEIGHTED MONTHLY RATE GREATER THAN OR EQUAL TO 60 AMPS	LINE 4 X LINE 5	\$5.94
7	TOTAL SUMMED MONTHLY RATE PER AMP BASED ON THE WEIGHTED AVERAGE EXPECTED LIVES OF THE POWER EQUIPMENT	LINE 3 + LINE 6	\$23.84

# PHYSICAL COLLOCATION Bell Atlantic - New York FCC - 11

#### DC POWER - COST SUMMARY

A	<u>B</u>	<u>C</u>
ITEM	SOURCE	MONTHLY RECURRING
DC POWER PER AMP		
LESS THAN OR EQUAL TO 60 AMPS	WP 1.0, PG 2, LN 11F	\$23.86
GREATER THAN 60 AMPS	WP 1.1, PG 2, LN 11F	\$23.76
	DC POWER PER AMP LESS THAN OR EQUAL TO 60 AMPS	ITEM SOURCE  DC POWER PER AMP  LESS THAN OR EQUAL TO 60 AMPS WP 1.0, PG 2, LN 11F

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#### PHYSICAL COLLOCATION BELL ATLANTIC - NEW YORK FCC - 11

	<u>A</u>	<u>B</u>	<u>c</u>	Ď	<u>E</u>	<u>E</u>
	ITEM	SOURCE	LAND	BLDG	SWITCH EQPT.	TOTAL INVEST
1	TOTAL DC POWER PLANT UNIT INVESTMENT	WP 2.0, LINE 8	-	-	\$262.90	\$262.90
2	EF&I FACTOR - FRC 377C	WP 4.0, LINE 24	-	-	2.7852	2.7852
3	INSTALLED INVESTMENT	LINE 1 x LINE 2	-	-	\$732.24	\$732.24
4	UTILIZATION FACTOR	ENGINEERING	-	-	1.0000	1.0000
5	TOTAL IN-PLACE INVESTMENT	LINE 3 x LINE 4	-	-	\$732.24	\$732.24
6	LAND INVESTMENT FACTOR	WP 4.0, LINE 22	0.0000	-	-	0.0000
7	BUILDING INVESTMENT FACTOR	WP 4.0, LINE 23	-	0.2140	-	0.2140
8	LAND INVESTMENT	LINE 5E x LINE 6C	\$0.00		-	\$0.00
9	BUILDING INVESTMENT	LINE 5E x LINE 7D	-	\$156.70	-	\$156.70
10	TOTAL UNIT INVESTMENT	LINE 5E + LINE 8C + LINE 9D	\$0.00	\$156.70	\$732.24	\$888.94

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#### PHYSICAL COLLOCATION BELL ATLANTIC - NEW YORK FCC - 11

	A	<u>B</u>	<u>c</u>	D	<u>E</u>	<u>F</u>
	<u>ITEM</u>	SOURCE	LAND	BLDG	SWITCH EQPT.	TOTAL INVEST
1	TOTAL UNIT INVESTMENT	WP 1.0, LINE 10	\$0.00	\$156.70	\$732.24	\$888.94
2	DEPRECIATION	LINE 1 X WP 4.0 - ACF FACTOR	\$0.00	\$3.51	\$28.70	\$32.21
3	COST OF CAPITAL	LINE 1 X WP 4.0 - ACF FACTOR	\$0.00	\$13.35	\$43.64	<b>\$56</b> .99
4	INCOME TAX	LINE 1 X WP 4.0 - ACF FACTOR	\$0.00	\$5.39	\$17.65	\$23.04
5	OTHER TAXES	LINE 1 X WP 4.0 - ACF FACTOR	\$0.00	\$4.97	\$1.54	\$6.51
6	MAINTENANCE	LINE 1 X WP 4.0 - ACF FACTOR	\$0.00	\$4.22	\$61.58	\$65.80
7	ADMINISTRATION	LINE 1 X WP 4.0 - ACF FACTOR	\$0.00	\$5.70	\$26.65	\$32.36
8	ANNUAL DIRECT COST	SUM (LINE 2 THRU LINE 7)	\$0.00	\$37.14	\$179.77	\$216.90
9	MONTHLY COST	LINE 8 / 12	\$0.00	\$3.09	\$14.98	\$18.08
10	OVERHEAD LOADING FACTOR	WP 4.0, PG 1, LINE 25	1.3200	1.3200	1.3200	1.3200
11	MONTHLY RATE	LINE 9 x LINE 10	\$0.00	\$4.09	\$19.77	\$23.86
12	DIRECT COST TO RATE	LINE 9 / LINE 11	0.0000	0.7576	0.7576	0.7576

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#### PHYSICAL COLLOCATION BELL ATLANTIC - NEW YORK FCC - 11

	<u>A</u>	<u>B</u>	<u>c</u>	<u>D</u>	<u>E</u>	E
	ITEM	SOURCE	LAND	BLDG	SWITCH EQPT.	TOTAL INVEST
1	TOTAL DC POWER PLANT UNIT INVESTMENT	WP 2.1, LINE 8	-	-	\$261.85	\$261.85
2	EF&I FACTOR - FRC 377C	WP 4.0, LINE 24	-	-	2.7852	2.7852
3	INSTALLED INVESTMENT	LINE 1 x LINE 2	-	-	\$729.32	\$729.32
4	UTILIZATION FACTOR	ENGINEERING	-	-	1.0000	1.0000
5	TOTAL IN-PLACE INVESTMENT	LINE 3 x LINE 4	-	-	\$729.32	\$729.32
6	LAND INVESTMENT FACTOR	WP 4.0, LINE 22	0.0000	-	•	0.0000
7	BUILDING INVESTMENT FACTOR	WP 4.0, LINE 23	-	0.2140	-	0.2140
8	LAND INVESTMENT	LINE 5E x LINE 6C	\$0.00		-	\$0.00
9	BUILDING INVESTMENT	LINE 5E x LINE 7D	-	\$156.07	-	\$156.07
10	TOTAL UNIT INVESTMENT	LINE 5E + LINE 8C + LINE 9D	\$0.00	\$156.07	\$729.32	\$885.39

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#### PHYSICAL COLLOCATION BELL ATLANTIC - NEW YORK FCC - 11

	A	<u>B</u>	<u>c</u>	<u>D</u>	<u>E</u>	Ē
	ITEM	SOURCE	LAND	BLDG	SWITCH EQPT.	TOTAL INVEST
1	TOTAL UNIT INVESTMENT	WP 1.1, LINE 10	\$0.00	\$156.07	\$729.32	\$885.39
2	DEPRECIATION	LINE 1 X WP 4.0 - ACF FACTOR	\$0.00	\$3.50	\$28.59	\$32.09
3	COST OF CAPITAL	LINE 1 X WP 4.0 - ACF FACTOR	\$0.00	\$13.30	\$43.47	\$56.76
4	INCOME TAX	LINE 1 X WP 4.0 - ACF FACTOR	\$0.00	\$5.37	\$17.58	\$22.95
5	OTHER TAXES	LINE 1 X WP 4.0 - ACF FACTOR	\$0.00	\$4.95	\$1.53	\$6.48
6	MAINTENANCE	LINE 1 X WP 4.0 - ACF FACTOR	\$0.00	\$4.20	\$61.34	\$65.53
7	ADMINISTRATION	LINE 1 X WP 4.0 - ACF FACTOR	\$0.00	\$5.68	\$26.55	\$32.23
8	ANNUAL DIRECT COST	SUM (LINE 2 THRU LINE 7)	\$0.00	\$36.99	\$179.05	\$216.04
9	MONTHLY COST	LINE 8 / 12	\$0.00	\$3.08	\$14.92	\$18.00
10	OVERHEAD LOADING FACTOR	WP 4.0, PG 1, LINE 25	1.3200	1.3200	1.3200	1.3200
11	MONTHLY RATE	LINE 9 x LINE 10	\$0.00	\$4.07	\$19.70	\$23.76
12	DIRECT COST TO RATE	LINE 9 / LINE 11	0.0000	0.7576	0.7576	0.7576

#### WORKPAPER 2.0 PAGE 1 OF 1

# PHYSICAL COLLOCATION Bell Atlantic - New York FCC NO. 11

#### DC POWER COST DEVELOPMENT - LESS THAN OR EQUAL TO 60 AMPs

	(A)	(B)	(C)
LINE NO.	<u>ITEM</u>	SOURCE	DATA
1	MICROPROCESSOR PLANT (BUSS BAR)	WP 3.0, LINE 5C	\$6.28
2	RECTIFIERS	WP 3.0, LINE 14C	\$34.89
3	BATTERIES	WP 3.0, LINE 21C	\$46.91
4	AUTOMATIC BREAKERS	WP 3.0, LINE 26C	\$36.43
5	POWER DISTRIBUTION SERVICE CABINET	WP 3.0, LINE 31C	\$7.64
6	EMERGENCY ENGINE/TURBINE (AUTO START)	WP 3.0, LINE 40C	\$120.50
7	BATTERY DISTRIBUTION FUSE BAY	WP 3.0, LINE 45C	<b>\$10.25</b>
8	TOTAL DC POWER PLANT UNIT INVESTMENT	SUM (LINE 1 THRU LINE 7)	\$262.90

#### WORKPAPER 2.1 PAGE 1 OF 1

# PHYSICAL COLLOCATION Bell Atlantic - New York FCC NO. 11

	(A)	(B)	(C)
LINE NO.	<u>ITEM</u>	SOURCE	DATA
1	MICROPROCESSOR PLANT (BUSS BAR)	WP 3.1, LINE 5C	\$6.28
2	RECTIFIERS	WP 3.1, LINE 14C	\$34.89
3	BATTERIES	WP 3.1, LINE 21C	\$46.91
4	AUTOMATIC BREAKERS	WP 3.1, LINE 26C	\$36.43
5	POWER DISTRIBUTION SERVICE CABINET	WP 3.1, LINE 31C	\$7.64
6	EMERGENCY ENGINE/TURBINE (AUTO START)	WP 3.1, LINE 40C	\$120.50
7	POWER PLANT DISTRIBUTION BAY	WP 3.1, LINE 45C	<u>\$9.20</u>
8	TOTAL DC POWER PLANT UNIT INVESTMENT	SUM (LINE 1 THRU LINE 7)	\$261.85

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### PHYSICAL COLLOCATION Bell Atlantic - New York FCC NO. 11

#### DC POWER COST DEVELOPMENT - LESS THAN OR EQUAL TO 60 AMPs

	DC POWER COST	DEVELOPMENT - LES	S IHAN UN	EQUAL TO 60 A	MPS		
	(9)	(C)	(D)	(E)	(F)	(G)	(H)
LINE NO	<u>item</u>	SOURCE	MAJOR CITIES	HIGH RISE MAJOR CITIES	URBAN	SUBURBAN	RURAL
	Microprocessor Plant (BUSS BAR)						
1	AMP	Engineering	5,000	6,000	2,600	2,600	600
2	Material	Engineering	\$22,800	\$48,000	\$17,500	\$11,500	\$10,000
3	Unit Investment Per AMP	(L2 / L1)	\$4.56	\$8.00	\$6.73	\$4.42	\$16.67
4	Statewide Weighting	Service Costs	0.5574	0.1359	0.1243	0.0998	0.0826
5	Statewide Unit Investment Per AMP Sum (L5D thru L5H)	\$6,28	\$2.54	\$1.09	\$0.84	\$0.44	\$1.38
	Dantifina						
6	Rectifiers Quantity	Engineering	6	6	6	6	7
7	AMPS per unit	Engineering	400	400	200	200	50
8	Tot. AMPS	(L6 * L7)	2,400	2,400	1,200	1,200	350
9	Utilization	(L6-1) / L6)	83.33%	83.33%	83.33%	83.33%	85.71%
10	Material	Engineering	\$51,900	\$51,900	\$35,500	\$35,500	\$32,500
11	Total Investment	(L10 / L9)	\$62,280	\$62,280	\$42,600	\$42,600	\$37,917
12	Unit Investment Per AMP	(L11 / L8)	\$25.95	\$25.95	\$35,50	\$35.50	\$108.33
13	Statewide Weighting	Service Costs	0.5574	0.1359	0.1243	0.0998	0.0826
14	Statewide Unit Investment Per AMP Sum (L14D thru L14H)	\$34.89	\$14.46	\$3.53	<b>\$4</b> .41	\$3.54	\$8.94
	Batteries						
15	Strings	Engineering	3	4	3	3	2
16	AMPs per String	Engineering	688	688	310	310	310
17	Tot. AMPS	(L15 ° L16)	2,064	2,752	930	930	620
18	Total Investment	Engineering	\$98,500	\$130,000	\$40,500	\$40,500	\$31,000
19	Unit Investment Per AMP	(L18 / L17)	\$47.72	\$47.24	\$43.55	\$43.55	\$50.00
20	Statewide Weighting	Service Costs	0.5574	0.1359	0.1243	0.0998	0.0826
21	Statewide Unit Investment Per AMP Sum (L21D thru L21H)	\$46.91	\$26.60	\$6.42	\$5.41	\$4.35	\$4.13
	Automatic Breaker						
22	AMP per Breaker	Engineering	1,600	3,200	1,200	800	400
23	Total Investment	Engineering	\$50,000	\$150,D00	\$40,000	\$35,000	\$20,000
24	Unit Investment Per AMP	(L23 / L22)	\$31.25	\$46.88	\$33.33	\$43.75	\$50.00
25	Statewide Weighting	Service Costs	0.5574	0.1359	0.1243	0.0998	0.0826
26	Statewide Unit Investment Per AMP Sum (L26D thru L26H)	\$36.43	\$17.42	\$6.37	\$4.14	\$4.37	\$4.13
	Power Distribution Service Cabinet						
27	Amps	Engineering	800	3,200	800	400	400
28	Material	Engineering	\$7,000	\$16,000	\$4,000	\$3,700	\$2,600
29	Unit Investment Per AMP	(L28 / L27)	\$8.75	\$5.00	\$5.00	\$9.25	\$6.50
30	Statewide Weighting	Service Costs	0.5574	0.1359	0.1243	0.0998	0.0826
31	Statewide Unit Investment Per AMP	\$7.64	\$4.88	\$0.68	\$0.62	\$0.92	\$0.54
	Sum (L31D thru L31H)						
	Emergency engine/turbine (auto start)						
32	AMP Capacity	Engineering	2,083	2,083	1,216	868	278
33	Utilization	Engineering	70%	70%	70%	70%	70%
34	Utilized AMPS	(L32 * L33)	1,458	1,458	851	608	195
35 36	Emerg. Engine Invest.	Engineering	\$125,000 \$35,000	\$125,000	\$38,200	\$33,500	\$21,000 \$20,000
36 37	Conduit/Emer Lights Total Investment	Engineering (£35 + £36)	\$160,000	\$115,000 \$240,000	\$30,000 \$68,200	\$25,000 \$58,500	\$41,000
38	Unit Investment Per AMP	(L37 / L34)	\$100,000	\$164.60	\$80.12	\$96.28	\$210.69
39	Statewide Weighting	Service Costs	0.5574	0.1359	0.1243	0.0998	0.0826
40	Statewide Unit Investment Per AMP Sum (L400 thru L40H)	\$120.50	\$61.16	\$22.38	\$9.96	\$9.61	\$17.40
	Datter, Dietrikutten Fran De						
41	Battery Distribution Fuse Bay  AMP Capacity	Engineering	800	800	800	800	800
42	Material	Engineering	\$8,200	\$8,200	\$8,200	\$8.200	\$8,200
43	Unit Investment Per AMP	(L42 / L41)	\$10.25	\$10.25	\$10.25	\$10.25	\$10.25
44	Statewide Weighting	Service Costs	0.5574	0.1359	0.1243	0.0998	0.0826
45	Statewide Unit Investment Per AMP Sum (L45D thru L45H)	\$10.25	\$5.71	\$1.39	\$1.27	\$1.02	\$0.85
	7-1-111-3-1						
	Total Unit Investment - (Less than or	*****					
46	Equal to 60 AMP's) - Sum Lines	\$262.90					
	(5C+14C+21C+26C+31C+40C+45C)						

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### PHYSICAL COLLOCATION Bell Atlantic - New York FCC NO. 11

DC POWER	. GREATER	THAN 60	AMPS

		DO TOTICK ON EN	11.01.00	•			
	(B)	(C)	(D)	(E)	(F)	(G)	(H)
			MAJOR	HIGH RISE			
LINE NO.	ITEM	SOURCE	CITIES	MAJOR CITIES	URBAN	SUBURBAN	RURAL
	Microprocessor Plant (BUSS BAR)						
1	AMP	Engineering	5,000	6,000	2,600	2,600	600
2	Material	Engineering	\$22,800	\$48,000	\$17,500	\$11,500	\$10,000
3	Unit Investment Per AMP	(L2 / L1)	\$4,56	\$8.00	\$6.73	\$4.42	\$16.67
4	Statewide Weighting	Service Costs	0.5574	0.1359	0.1243	0.0998	0.0826
5	Statewide Unit Investment Per AMP	\$6.28	\$2.54	\$1.09	\$0.84	\$0.44	\$1.38
	Sum (L5D thru L5H)		, , , , , ,	•	•	•	
	Rectifiers						
6	Quantity	Engineering	6	6	6	6	7
7	AMPS per unit	Engineering	400	400	200	200	50
8 9	Tot. AMPS Utilization	( L6 ° L7) ( <b>L6</b> -1) / L6)	2,400 83.33%	2,400 83.33%	1,200 83.33%	1,200 83.33%	350 85.71%
10	Material	Engineering	\$51,900	\$51,900	\$35,500	\$35,500	\$32,500
11	Total Investment	(L10 / L9)	\$62,280	\$62,280	\$42,600	\$42,600	\$37,917
12	Unit Investment Per AMP	(L11 / L8)	\$25.95	\$25.95	\$35.50	\$35.50	\$108.33
13	Statewide Weighting	Service Costs	0.5574	0 1359	0.1243	0.0998	0.0826
14	Statewide Unit Investment Per AMP	\$34.89	\$14.46	\$3.53	\$4.41	\$3.54	\$8.94
	Sum (L14D thru L14H)		1				
	Batteries						
15	Strings	Engineering	3	4	3	3	2
16 17	AMPs per String Tot, AMPS	Engineering (L15 * L16)	688 2,064	688 2.752	310 930	310 930	310 620
18	Total Investment	Engineering	\$98,500	\$130,000	\$40,500	\$40,500	\$31,000
19	Unit Investment Per AMP	(L18 / L17)	\$47.72	\$47.24	\$43.55	\$43.55	\$50.00
20	Statewide Weighting	Service Costs	0.5574	0.1359	0.1243	0.0998	0.0826
21	Statewide Unit Investment Per AMP	\$46.91	\$26,60	\$6.42	\$5.41	\$4.35	\$4.13
	Sum (L21D thru L21H)						
	Automatic Breaker						
22 23	AMP per Breaker Total investment	Engineering	1,600	3,200	1,200	800	400
24	Unit Investment Per AMP	Engineering (L23 / L22)	\$50,000 \$31.25	\$150,000 \$46.88	\$40,000 \$33.33	\$35,000 \$43.75	\$20,000 \$50.00
25	Statewide Weighting	Service Costs	0.5574	0.1359	0.1243	0.0998	0.0826
26	Statewide Unit Investment Per AMP	\$36.43	\$17.42	\$6.37	\$4.14	\$4.37	\$4.13
20	Sum (L26D thru L26H)	400.40	<b>417.42</b>	<b>3</b> 0.57	44.14	<b>34.57</b>	
	42 (2222 4 224)						
	Power Distribution Service Cabinet						
27	Amps	Engineering	800	3,200	800	400	400
28	Material	Engineering	\$7,000	\$16,000	\$4,000	\$3,700	\$2,600
29 30	Unit Investment Per AMP Statewide Weighting	(L28 / L27) Service Costs	\$8.75 0.5574	\$5.00 0.1359	\$5.00 0.1243	\$9.25 0.0998	\$6.50 0.0826
31	Statewide Unit Investment Per AMP	\$7.64	\$4.88	\$0.68	\$0.62	\$0.92	\$0.54
	Sum (L31D thru L31H)						
	Emergency engine/turbine (auto start)						
32	AMP Capacity	Engineering	2,083	2,083	1,216	868	278
33	Utilization	Engineering	70%	70%	70%	70%	70%
34	Utilized AMPS	(L32 * L33)	1,458	1,458	851	608	195
35	Emerg. Engine Invest.	Engineering	\$125,000	\$125,000	\$38,200	\$33,500	\$21,000
36 37	Conduit/Emer Lights Total Investment	Engineering (L35 + L36)	\$35,000 \$160,000	\$115,000	\$30,000	\$25,000	\$20.000
38	Unit Investment Per AMP	(L37 / L34)	\$100,000	\$240,000 \$164.60	\$68,200 \$80,12	\$58,500 \$96.28	\$41,000 \$210,69
39	Statewide Weighting	Service Costs	0.5574	0.1359	0.1243	0.0998	0.0826
40	Statewide Unit Investment Per AMP	\$120.50	\$61.16	\$22.38	\$9.96	\$9.61	\$17.40
	Sum (L40D thru L40H)	<u> </u>	•••••	<b>43</b> 2.00	••••		•
	- 1						
	Power Plant Distribution Bay						
41	AMP Capacity	Engineering	2,600	2,600	1,200	1,200	300
42	Material	Engineering	\$20,000	\$22,000	\$15,000	\$10,000	\$5,000
43	Unit Investment Per AMP	(L42 / L41)	\$7.69 0.6574	\$8.46	\$12.50	\$8.33	\$16.67
44	Statewide Weighting	Service Costs	0.5574	0.1359	0.1243	0.0998	0.0826
45	Statewide Unit Investment Per AMP	\$9.20	\$4.29	<b>\$</b> 1.15	\$1.55	\$0.83	\$1.38
	Sum (L45D thru L45H)						
	Total Unit Investment - (Greater than 60						
	AMPs) -Sum Lines						
46	(5C+14C+21C+26C+31C+40C+45C)	\$261.85					
	,						

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# PHYSICAL COLLOCATION Bell Atlantic - New York FCC NO. 11

#### **FACTORS**

- Digital Switch - Power (2212.00)  1 DEPRECIATION SERVICE COSTS 0.0392 2 COST OF MONEY SERVICE COSTS 0.0596 3 INCOME TAX SERVICE COSTS 0.0241 4 OTHER TAX SERVICE COSTS 0.0021 5 MAINTENANCE SERVICE COSTS 0.0841 6 ADMINISTRATION SERVICE COSTS 0.0841 7 TOTAL- Digital Switch ACF SUM (LINES 1 THRU LINE 6)  - Land 8 DEPRECIATION SERVICE COSTS 0.0000 9 COST OF MONEY SERVICE COSTS 0.0463 11 OTHER TAX SERVICE COSTS 0.0317 12 MAINTENANCE SERVICE COSTS 0.0463 11 OTHER TAX SERVICE COSTS 0.0463 11 OTHER TAX SERVICE COSTS 0.0364 12 MAINTENANCE SERVICE COSTS 0.0364 13 ADMINISTRATION SERVICE COSTS 0.0364 14 TOTAL- Land ACF SUM (LINES 8 THRU LINE 13) 0.2558  - Building 15 DEPRECIATION SERVICE COSTS 0.0364 16 COST OF MONEY SERVICE COSTS 0.0364 17 INCOME TAX SERVICE COSTS 0.0344 18 OTHER TAX SERVICE COSTS 0.0344 18 OTHER TAX SERVICE COSTS 0.0347 19 MAINTENANCE SERVICE COSTS 0.0347 19 MAINTENANCE SERVICE COSTS 0.0364 20 ADMINISTRATION SERVICE COSTS 0.0364 21 TOTAL- Building ACF SUM (LINES 15 THRU LINE 20) 0.2370  OTHER FACTORS:  22 LAND INVESTMENT FACTOR SERVICE COSTS 0.0000 23 BUILDING INVESTMENT FACTOR SERVICE COSTS 0.2440 24 EF&I FACTOR - SERVICE COSTS 0.2140 25 DC POWER - OVERHEAD LOADING FACTOR COMMISSION PRESCRIBED 1.3200	Line No.	(A) Factor Item	(B) Source	(C) FCC <u>DATA</u>
DEPRECIATION   SERVICE COSTS   0.0392		ANNUAL COST FACTOR		
COST OF MONEY   SERVICE COSTS   0.0596		- Digital Switch - Power (2212.00)		
3   INCOME TAX   SERVICE COSTS   0.0241   4   OTHER TAX   SERVICE COSTS   0.0021   5   MAINTENANCE   SERVICE COSTS   0.0841   6   ADMINISTRATION   SERVICE COSTS   0.0364   7   TOTAL- Digital Switch ACF   SUM (LINES 1 THRU LINE 6)   0.2455    - Land   SERVICE COSTS   0.0000   9   COST OF MONEY   SERVICE COSTS   0.0000   9   COST OF MONEY   SERVICE COSTS   0.1145   10   INCOME TAX   SERVICE COSTS   0.0463   11   OTHER TAX   SERVICE COSTS   0.0317   12   MAINTENANCE   SERVICE COSTS   0.0364   13   ADMINISTRATION   SERVICE COSTS   0.0269   13   ADMINISTRATION   SERVICE COSTS   0.0364   14   TOTAL- Land ACF   SUM (LINES 8 THRU LINE 13)   0.2558    - Building   SERVICE COSTS   0.0364   15   DEPRECIATION   SERVICE COSTS   0.0362   16   COST OF MONEY   SERVICE COSTS   0.0364   17   INCOME TAX   SERVICE COSTS   0.0344   18   OTHER TAX   SERVICE COSTS   0.0344   19   MAINTENANCE   SERVICE COSTS   0.0317   19   MAINTENANCE   SERVICE COSTS   0.0364   20   ADMINISTRATION   SERVICE COSTS   0.0364   21   TOTAL- Building ACF   SUM (LINES 15 THRU LINE 20)   0.2370    OTHER FACTORS:	1	DEPRECIATION	SERVICE COSTS	0.0392
OTHER TAX   SERVICE COSTS   0.0021	2	COST OF MONEY	SERVICE COSTS	0.0596
5         MAINTENANCE         SERVICE COSTS         0.0841           6         ADMINISTRATION         SERVICE COSTS         0.0364           7         TOTAL- Digital Switch ACF         SUM (LINES 1 THRU LINE 6)         0.2455           - Land           8         DEPRECIATION         SERVICE COSTS         0.0000           9         COST OF MONEY         SERVICE COSTS         0.0463           10         INCOME TAX         SERVICE COSTS         0.0463           11         OTHER TAX         SERVICE COSTS         0.0269           13         ADMINISTRATION         SERVICE COSTS         0.0269           13         ADMINISTRATION         SERVICE COSTS         0.0364           14         TOTAL- Land ACF         SUM (LINES 8 THRU LINE 13)         0.2558           - Building           16         COST OF MONEY         SERVICE COSTS         0.0852           17         INCOME TAX         SERVICE COSTS         0.0344           18         OTHER TAX         SERVICE COSTS         0.0317           19         MAINTENANCE         SERVICE COSTS         0.0269           20         ADMINISTRATION         SERVICE COSTS         0.0269           20	3	INCOME TAX	SERVICE COSTS	0.0241
6 ADMINISTRATION 7 TOTAL- Digital Switch ACF SUM (LINES 1 THRU LINE 6) 0.2455  - Land 8 DEPRECIATION 9 COST OF MONEY 10 INCOME TAX 11 OTHER TAX 12 SERVICE COSTS 13 ADMINISTRATION 14 TOTAL- Land ACF 15 DEPRECIATION 16 COST OF MONEY 17 INCOME TAX 18 SERVICE COSTS 19 LO269 10 ADMINISTRATION 19 SERVICE COSTS 10 LO269 10 SERVICE COSTS 10 LO269 11 ADMINISTRATION 11 SERVICE COSTS 10 LO269 12 ADMINISTRATION 13 SERVICE COSTS 14 TOTAL- Land ACF 15 DEPRECIATION 16 COST OF MONEY 17 INCOME TAX 18 OTHER TAX 19 SERVICE COSTS 10 LO344 18 OTHER TAX 19 SERVICE COSTS 10 LO344 19 OTHER TAX 19 MAINTENANCE 20 ADMINISTRATION 21 SERVICE COSTS 22 LAND INVESTMENT FACTOR 23 BUILDING INVESTMENT FACTOR 24 EF&I FACTOR - FRC 377C (DC POWER) 25 SERVICE COSTS 20 L2140 26 SERVICE COSTS 21 L215 22 LAND INVESTMENT FACTOR 24 SERVICE COSTS 26 L2140 26 SERVICE COSTS 27 L2140 27 SERVICE COSTS 28 L2140 29 LAND INVESTMENT FACTOR 20 SERVICE COSTS 27 L2140 29 SERVICE COSTS 27 L2140 29 SERVICE COSTS 27 L2140 29 SERVICE COSTS 27 L2140 20 SERVICE COSTS 27 L2140 21 SERVICE COSTS 27 L2140	4	OTHER TAX	SERVICE COSTS	0.0021
TOTAL- Digital Switch ACF   SUM (LINES 1 THRU LINE 6)   0.2455	5	MAINTENANCE	SERVICE COSTS	0.0841
- Land  B DEPRECIATION SERVICE COSTS 0.0000  9 COST OF MONEY SERVICE COSTS 0.1145  10 INCOME TAX SERVICE COSTS 0.0463  11 OTHER TAX SERVICE COSTS 0.0317  12 MAINTENANCE SERVICE COSTS 0.0269  13 ADMINISTRATION SERVICE COSTS 0.0364  14 TOTAL- Land ACF SUM (LINES 8 THRU LINE 13) 0.2558  - Building  15 DEPRECIATION SERVICE COSTS 0.0224  16 COST OF MONEY SERVICE COSTS 0.0852  17 INCOME TAX SERVICE COSTS 0.0344  18 OTHER TAX SERVICE COSTS 0.0344  19 MAINTENANCE SERVICE COSTS 0.0317  19 MAINTENANCE SERVICE COSTS 0.0317  19 MAINTENANCE SERVICE COSTS 0.0364  21 TOTAL- Building ACF SUM (LINES 15 THRU LINE 20) 0.2370  OTHER FACTORS:  22 LAND INVESTMENT FACTOR SERVICE COSTS 0.0000  23 BUILDING INVESTMENT FACTOR SERVICE COSTS 0.2140  24 EF&I FACTOR - FRC 377C (DC POWER) SERVICE COSTS 0.2140	6	ADMINISTRATION	SERVICE COSTS	0.0364
8         DEPRECIATION         SERVICE COSTS         0.0000           9         COST OF MONEY         SERVICE COSTS         0.1145           10         INCOME TAX         SERVICE COSTS         0.0463           11         OTHER TAX         SERVICE COSTS         0.0317           12         MAINTENANCE         SERVICE COSTS         0.0269           13         ADMINISTRATION         SERVICE COSTS         0.0364           14         TOTAL- Land ACF         SUM (LINES 8 THRU LINE 13)         0.2558           - Building         SERVICE COSTS         0.0364           15         DEPRECIATION         SERVICE COSTS         0.0852           17         INCOME TAX         SERVICE COSTS         0.0344           16         COST OF MONEY         SERVICE COSTS         0.0344           18         OTHER TAX         SERVICE COSTS         0.0317           19         MAINTENANCE         SERVICE COSTS         0.0269           20         ADMINISTRATION         SERVICE COSTS         0.0364           21         TOTAL- Building ACF         SUM (LINES 15 THRU LINE 20)         0.2370           OTHER FACTOR         SERVIC	7	TOTAL- Digital Switch ACF	SUM (LINES 1 THRU LINE 6)	0.2455
8         DEPRECIATION         SERVICE COSTS         0.0000           9         COST OF MONEY         SERVICE COSTS         0.1145           10         INCOME TAX         SERVICE COSTS         0.0463           11         OTHER TAX         SERVICE COSTS         0.0317           12         MAINTENANCE         SERVICE COSTS         0.0269           13         ADMINISTRATION         SERVICE COSTS         0.0364           14         TOTAL- Land ACF         SUM (LINES 8 THRU LINE 13)         0.2558           - Building         SERVICE COSTS         0.0364           15         DEPRECIATION         SERVICE COSTS         0.0852           17         INCOME TAX         SERVICE COSTS         0.0344           16         COST OF MONEY         SERVICE COSTS         0.0344           18         OTHER TAX         SERVICE COSTS         0.0317           19         MAINTENANCE         SERVICE COSTS         0.0269           20         ADMINISTRATION         SERVICE COSTS         0.0364           21         TOTAL- Building ACF         SUM (LINES 15 THRU LINE 20)         0.2370           OTHER FACTOR         SERVIC				
9         COST OF MONEY         SERVICE COSTS         0.1145           10         INCOME TAX         SERVICE COSTS         0.0463           11         OTHER TAX         SERVICE COSTS         0.0317           12         MAINTENANCE         SERVICE COSTS         0.0269           13         ADMINISTRATION         SERVICE COSTS         0.0364           14         TOTAL- Land ACF         SUM (LINES 8 THRU LINE 13)         0.2558           - Building           15         DEPRECIATION         SERVICE COSTS         0.0224           16         COST OF MONEY         SERVICE COSTS         0.0852           17         INCOME TAX         SERVICE COSTS         0.0344           18         OTHER TAX         SERVICE COSTS         0.0317           19         MAINTENANCE         SERVICE COSTS         0.0269           20         ADMINISTRATION         SERVICE COSTS         0.0364           21         TOTAL- Building ACF         SUM (LINES 15 THRU LINE 20)         0.2370           OTHER FACTORS:           22         LAND INVESTMENT FACTOR         SERVICE COSTS         0.0000           23         BUILDING INVESTMENT FACTOR         SERVICE COSTS         0.2140		<del></del>	250,405,000	
10				
11 OTHER TAX	-			
12         MAINTENANCE         SERVICE COSTS         0.0269           13         ADMINISTRATION         SERVICE COSTS         0.0364           14         TOTAL- Land ACF         SUM (LINES 8 THRU LINE 13)         0.2558           - Building           15         DEPRECIATION         SERVICE COSTS         0.0224           16         COST OF MONEY         SERVICE COSTS         0.0852           17         INCOME TAX         SERVICE COSTS         0.0344           18         OTHER TAX         SERVICE COSTS         0.0317           19         MAINTENANCE         SERVICE COSTS         0.0269           20         ADMINISTRATION         SERVICE COSTS         0.0364           21         TOTAL- Building ACF         SUM (LINES 15 THRU LINE 20)         0.2370           OTHER FACTORS:           22         LAND INVESTMENT FACTOR         SERVICE COSTS         0.0000           23         BUILDING INVESTMENT FACTOR         SERVICE COSTS         0.2140           24         EF&I FACTOR - FRC 377C (DC POWER)         SERVICE COSTS         2.7852				
13   ADMINISTRATION   SERVICE COSTS   0.0364     14   TOTAL- Land ACF   SUM (LINES 8 THRU LINE 13)   0.2558     - Building				
TOTAL- Land ACF   SUM (LINES 8 THRU LINE 13)   0.2558				
- Building  15 DEPRECIATION SERVICE COSTS 0.0224 16 COST OF MONEY SERVICE COSTS 0.0852 17 INCOME TAX SERVICE COSTS 0.0344 18 OTHER TAX SERVICE COSTS 0.0317 19 MAINTENANCE SERVICE COSTS 0.0269 20 ADMINISTRATION SERVICE COSTS 0.0269 21 TOTAL- Building ACF SUM (LINES 15 THRU LINE 20)  OTHER FACTORS:  22 LAND INVESTMENT FACTOR SERVICE COSTS 0.0000 23 BUILDING INVESTMENT FACTOR SERVICE COSTS 0.2140 24 EF&I FACTOR - FRC 377C (DC POWER) SERVICE COSTS 2.7852				
15         DEPRECIATION         SERVICE COSTS         0.0224           16         COST OF MONEY         SERVICE COSTS         0.0852           17         INCOME TAX         SERVICE COSTS         0.0344           18         OTHER TAX         SERVICE COSTS         0.0317           19         MAINTENANCE         SERVICE COSTS         0.0269           20         ADMINISTRATION         SERVICE COSTS         0.0364           21         TOTAL- Building ACF         SUM (LINES 15 THRU LINE 20)         0.2370           OTHER FACTORS:           22         LAND INVESTMENT FACTOR         SERVICE COSTS         0.0000           23         BUILDING INVESTMENT FACTOR         SERVICE COSTS         0.2140           24         EF&I FACTOR - FRC 377C (DC POWER)         SERVICE COSTS         2.7852	14	TOTAL- Land ACF	SUM (LINES & I HRU LINE 13)	0.2558
15         DEPRECIATION         SERVICE COSTS         0.0224           16         COST OF MONEY         SERVICE COSTS         0.0852           17         INCOME TAX         SERVICE COSTS         0.0344           18         OTHER TAX         SERVICE COSTS         0.0317           19         MAINTENANCE         SERVICE COSTS         0.0269           20         ADMINISTRATION         SERVICE COSTS         0.0364           21         TOTAL- Building ACF         SUM (LINES 15 THRU LINE 20)         0.2370           OTHER FACTORS:           22         LAND INVESTMENT FACTOR         SERVICE COSTS         0.0000           23         BUILDING INVESTMENT FACTOR         SERVICE COSTS         0.2140           24         EF&I FACTOR - FRC 377C (DC POWER)         SERVICE COSTS         2.7852		- Building		
17         INCOME TAX         SERVICE COSTS         0.0344           18         OTHER TAX         SERVICE COSTS         0.0317           19         MAINTENANCE         SERVICE COSTS         0.0269           20         ADMINISTRATION         SERVICE COSTS         0.0364           21         TOTAL- Building ACF         SUM (LINES 15 THRU LINE 20)         0.2370           OTHER FACTORS:           22         LAND INVESTMENT FACTOR         SERVICE COSTS         0.0000           23         BUILDING INVESTMENT FACTOR         SERVICE COSTS         0.2140           24         EF&I FACTOR - FRC 377C (DC POWER)         SERVICE COSTS         2.7852	15		SERVICE COSTS	0.0224
18         OTHER TAX         SERVICE COSTS         0.0317           19         MAINTENANCE         SERVICE COSTS         0.0269           20         ADMINISTRATION         SERVICE COSTS         0.0364           21         TOTAL- Building ACF         SUM (LINES 15 THRU LINE 20)         0.2370           OTHER FACTORS:           22         LAND INVESTMENT FACTOR         SERVICE COSTS         0.0000           23         BUILDING INVESTMENT FACTOR         SERVICE COSTS         0.2140           24         EF&I FACTOR - FRC 377C (DC POWER)         SERVICE COSTS         2.7852	16	COST OF MONEY	SERVICE COSTS	0.0852
19         MAINTENANCE         SERVICE COSTS         0.0269           20         ADMINISTRATION         SERVICE COSTS         0.0364           21         TOTAL- Building ACF         SUM (LINES 15 THRU LINE 20)         0.2370           OTHER FACTORS:           22         LAND INVESTMENT FACTOR         SERVICE COSTS         0.0000           23         BUILDING INVESTMENT FACTOR         SERVICE COSTS         0.2140           24         EF&I FACTOR - FRC 377C (DC POWER)         SERVICE COSTS         2.7852	17	INCOME TAX	SERVICE COSTS	0.0344
20 ADMINISTRATION SERVICE COSTS 0.0364 21 TOTAL- Building ACF SUM (LINES 15 THRU LINE 20)  OTHER FACTORS:  22 LAND INVESTMENT FACTOR SERVICE COSTS 0.0000 23 BUILDING INVESTMENT FACTOR SERVICE COSTS 0.2140 24 EF&I FACTOR - FRC 377C (DC POWER) SERVICE COSTS 2.7852	18	OTHER TAX	SERVICE COSTS	0.0317
21 TOTAL-Building ACF SUM (LINES 15 THRU LINE 20) 0.2370  OTHER FACTORS:  22 LAND INVESTMENT FACTOR SERVICE COSTS 0.0000 23 BUILDING INVESTMENT FACTOR SERVICE COSTS 0.2140 24 EF&I FACTOR - FRC 377C (DC POWER) SERVICE COSTS 2.7852	19	MAINTENANCE	SERVICE COSTS	0.0269
OTHER FACTORS:  22 LAND INVESTMENT FACTOR SERVICE COSTS 0.0000 23 BUILDING INVESTMENT FACTOR SERVICE COSTS 0.2140 24 EF&I FACTOR - FRC 377C (DC POWER) SERVICE COSTS 2.7852	20	ADMINISTRATION	SERVICE COSTS	0.0364
22 LAND INVESTMENT FACTOR SERVICE COSTS 0.0000 23 BUILDING INVESTMENT FACTOR SERVICE COSTS 0.2140 24 EF&I FACTOR - FRC 377C (DC POWER) SERVICE COSTS 2.7852	21	TOTAL- Building ACF	SUM (LINES 15 THRU LINE 20)	0.2370
22 LAND INVESTMENT FACTOR SERVICE COSTS 0.0000 23 BUILDING INVESTMENT FACTOR SERVICE COSTS 0.2140 24 EF&I FACTOR - FRC 377C (DC POWER) SERVICE COSTS 2.7852		ATUES		
23 BUILDING INVESTMENT FACTOR SERVICE COSTS 0.2140 24 EF&I FACTOR - FRC 377C (DC POWER) SERVICE COSTS 2.7852		OTHER FACTORS:		
23 BUILDING INVESTMENT FACTOR SERVICE COSTS 0.2140 24 EF&I FACTOR - FRC 377C (DC POWER) SERVICE COSTS 2.7852	22	LAND INVESTMENT FACTOR	SERVICE COSTS	0.0000
24 EF&I FACTOR - FRC 377C (DC POWER) SERVICE COSTS 2.7852				
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# PHYSICAL COLLOCATION BELL ATLANTIC : DC, DE, MD, NJ, PA, VA & WV FCC - 1

#### 8-Aug-01

#### DC POWER - WEIGHTED SUMMARY

### BASED ON WEIGHTED AVERAGE EXPECTED LIVES OF THE POWER EQUIPMENT MELDED FOR LESS THAN 60 AMPS AND GREATER THAN 60 AMPS

	A	<u>B</u>	<u>c</u>
	<u>ITEM</u>	SOURCE	BA - SOUTH
1	MONTHLY RATE LESS THAN OR EQUAL TO 60 AMPS	COST STUDY	\$19.09
2	WEIGHTING FACTOR		0.75
3	WEIGHTED MONTHLY RATE LESS THAN OR EQUAL TO 60 AMPS	LINE 1 X LINE 2	\$14.32
4	MONTHLY RATE GREATER THAN OR EQUAL TO 60 AMPS	COST STUDY	\$19.24
5	WEIGHTING FACTOR		0.25
6	WEIGHTED MONTHLY RATE GREATER THAN OR EQUAL TO 60 AMPS	LINE 4 X LINE 5	\$4.81
7	TOTAL SUMMED MONTHLY RATE PER AMP BASED ON THE <u>WEIGHTED AVERAGE</u> EXPECTED LIVES OF THE POWER EQUIPMENT	LINE 3 + LINE 6	\$19.13

EXHIBIT PAGE 1 OF 4

# PHYSICAL COLLOCATION BELL ATLANTIC: DC, DE, MD, NJ, PA, VA & WV FCC - 1 8-Aug-01 DC POWER - LESS THAN OR EQUAL TO 60 AMPS

#### - WEIGHTED -

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	A	<u>B</u>	<u>c</u>	<u>D</u>	<u>E</u>	E	<u>G</u>	Н	1	Ĩ
	ITEM	SOURCE	BA-DC	BA-DE	BA-MD	BA-NJ	ВА-РА	BA-VA	BA-WV	BA-SOUTH
1 TO	TAL UNIT INVESTMENT	COST STUDY	\$26.10	\$21.38	\$129.95	\$222.76	\$238.08	\$122.53	\$39.37	\$800.15
2	DEPRECIATION	COST STUDY	\$0.95	\$0.78	\$4.88	\$8.21	\$8.80	\$4.59	\$1.45	\$29.66
3	COST OF MONEY	COST STUDY	\$1.55	\$1.29	\$7.73	\$13.30	\$14.10	\$7.30	\$2.37	\$47.64
4	INCOME TAX	COST STUDY	\$0.82	\$0.66	\$3.80	\$6.90	\$7.51	\$3.49	\$1.23	\$24.41
5	MAINTENANCE	COST STUDY	\$1.50	\$1.36	\$6.08	\$12.22	\$12.58	\$6.28	\$2.34	\$42.37
6	ADMINISTRATION	COST STUDY	\$1.63	\$0.62	\$5.57	\$9.62	\$9.50	\$4.77	\$1.48	\$33.18
7	OTHER TAX	COST STUDY	\$0.17	\$0.18	\$2.28	\$2.76	\$2.14	\$1.00	\$0.42	\$8.95
8 AN	NUAL DIRECT COST	SUM (LINE 2 THRU LINE 7)	\$6.62	\$4.89	\$30.35	\$53.01	\$54.64	\$27.43	\$9.29	\$186.23
9 MC	NTHLY COST	LINE 8 / 12	\$0.55	\$0.41	\$2.53	\$4.42	\$4.55	\$2.29	\$0.77	\$15.52
10 O\	VERHEAD LOADING FACTOR	REGULATORY	1.2300	1.2300	1.2300	1.2300	1.2300	1.2300	1.2300	1.2300
11 MC	ONTHLY RATE	LINE 9 x LINE 10	\$0.68	\$0.50	\$3.11	\$5.43	\$5.60	\$2.81	\$0.95	\$19.09
12 DIF	RECT COST TO RATE	LINE 9 / LINE 11	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81

EXHIBIT PAGE 2 OF 4

# PHYSICAL COLLOCATION BELL ATLANTIC : DC, DE, MD, NJ, PA, VA & WV FCC - 1

13-Mar-01
DC POWER - GREATER THAN 60 AMPS

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	<u>A</u>	<u>B</u>	<u>c</u>	<u>D</u>	Ę	E	<u> </u>	Ħ	1	ī
	<u>ITEM</u>	SOURCE	BA-DC	BA-DE	BA-MD	BA-NJ	BA-PA	BA-VA	BA-WV	BA-SOUTH
1	TOTAL UNIT INVESTMENT	COST STUDY	\$26.06	\$21.54	\$131.20	\$223.74	\$240.24	\$123.66	\$40.15	\$806.60
2	DEPRECIATION	COST STUDY	\$0.95	\$0.78	\$4.93	\$8.25	\$8.88	\$4.63	\$1.48	\$29.90
3	COST OF MONEY	COST STUDY	\$1.55	\$1.30	\$7.81	\$13.36	\$14.23	\$7.37	\$2.42	\$48.03
4	INCOME TAX	COST STUDY	\$0.82	\$0.67	\$3.84	\$6.93	\$7.58	\$3.52	\$1.26	\$24.61
5	MAINTENANCE	COST STUDY	\$1.50	\$1.37	\$6.14	\$12.27	\$12.70	\$6.34	\$2.39	\$42.71
6	ADMINISTRATION	COST STUDY	\$1.62	\$0.63	\$5.63	\$9.66	\$9.58	\$4.81	\$1.51	\$33.44
7	OTHER TAX	COST STUDY	\$0.17	\$0.18	\$2.30	\$2.77	\$2.16	\$1.00	\$0.43	\$9.02
8	ANNUAL DIRECT COST	SUM (LINE 2 THRU LINE 7)	\$6.61	\$4.93	\$30.64	\$53.24	\$55.14	\$27.68	\$9.48	\$187.72
-	MONTHLY COST	LINE 8 / 12	\$0.55	\$0.41	\$2.55	\$4.44	\$4.59	\$2.31	\$0.79	\$15.64
10	OVERHEAD LOADING FACTOR	REGULATORY	1.2300	1.2300	1.2300	1.2300	1.2300	1.2300	1.2300	1.2300
11	MONTHLY RATE	LINE 9 x LINE 10	\$0.68	\$0.51	\$3.14	\$5.46	\$5.65	\$2.84	\$0.97	\$19.24
12	DIRECT COST TO RATE	LINE 9 / LINE 11	0.81	0.81	0.81	0.81	0.81	0.81	0.81	0.81

EXHIBIT PAGE 3 OF 4

## PHYSICAL COLLOCATION BELL ATLANTIC : DC, DE, MD, NJ, PA, VA & WV FCC - 1

	<u>A</u>	<u>B</u>	<u>c</u>	₽	Ē	<u>F</u>	<u>G</u>	Ħ	Ī
				COST OF	INCOME			OTHER	
LINE NO.	ITEM	SOURCE	DEPRECIATION	CAPITAL	TAX	MAINT.	ADMIN.	TAXES	TOTAL
1	WASHINGTON, DC	WP 1.0, PG 1, LINES 2 THRU 7	\$26.11	\$42.56	\$22.49	\$41.21	\$44.64	\$4.64	\$181.64
2	BA-SOUTH WEIGHTING	WP 8.0, PG 1, LINE 26C	0.03644	0.03644	0.03644	0.03644	0.03644	0.03644	0.2186
3	BA-DC WEIGHTED COST	LINE 1 X LINE 2	\$0.95	\$1.55	\$0.82	\$1.50	\$1.63	\$0.17	\$6.62
4	DELAWARE	WP 2.0, PG 1, LINES 2 THRU 7	\$30.35	\$50.24	\$25.85	\$52.93	\$24.25	\$7.03	\$190.64
5	BA-SOUTH WEIGHTING	WP 8.0, PG 1, LINE 26D	0.02566	0.02566	0.02566	0.02566	0.02566	0.02566	<u>0.1540</u>
6	BA-DE WEIGHTED COST	LINE 4 X LINE 5	\$0.78	\$1.29	\$0.66	\$1.36	\$0.62	\$0.18	\$4.89
7	MARYLAND	WP 3.0, PG 1, LINES 2 THRU 7	\$30.04	\$47.60	\$23.39	\$37.45	\$34.31	\$14.03	\$186.83
8	BA-SOUTH WEIGHTING	WP 8.0, PG 1, LINE 26E	<u>0.16245</u>	0.16245	0.16245	0.16245	0.16245	0.16245	0.9747
9	BA-MD WEIGHTED COST	LINE 7 X LINE 8	\$4.88	\$7.73	\$3.80	\$6.08	\$5.57	\$2.28	\$30.35
10	NEW JERSEY	WP 4.0, PG 1, LINES 2 THRU 7	\$28.13	\$45.55	\$23.62	\$41.86	\$32.94	\$9.46	<b>\$18</b> 1.56
11	BA-SOUTH WEIGHTING	WP 8.0, PG 1, LINE 26F	0.29196	<u>0.29196</u>	0.29196	0.29196	0.29196	0.29196	<u>1.7518</u>
12	BA-NJ WEIGHTED COST	LINE 10 X LINE 11	\$8.21	\$13.30	\$6.90	\$12.22	\$9.62	\$2.76	<b>\$53.01</b>
13	PENNSYLVANIA	WP 5.0, PG 1, LINES 2 THRU 7	\$30.34	\$48.59	\$25.88	\$43.36	\$32.73	\$7.39	\$188.28
14	BA-SOUTH WEIGHTING	WP 8.0, PG 1, LINE 26G	0.29019	0.29019	0.29019	0.29019	0.29019	0.29019	<u>1.7411</u>
15	BA-PA WEIGHTED COST	LINE 13 X LINE 14	\$8.80	\$14.10	\$7.51	\$12.58	\$9.50	\$2.14	\$54.64
16	VIRGINIA	WP 6.0, PG 1, LINES 2 THRU 7	\$29.50	\$46.96	\$22.45	\$40.40	\$30.67	\$6.40	\$176.40
17	BA-SOUTH WEIGHTING	WP 8.0, PG 1, LINE 26H	<u>0.15549</u>	0.15549	0.15549	0.15549	<u>0.15549</u>	0.15549	<u>0.9329</u>
18	BA-VA WEIGHTED COST	LINE 10 X LINE 11	\$4.59	\$7.30	\$3.49	\$6.28	\$4.77	\$1.00	\$27.43
19	WEST VIRGINIA	WP 7.0, PG 1, LINES 2 THRU 7	\$38.37	\$62.74	\$32.54	\$61.87	\$39.03	\$11.15	\$245.70
20	BA-SOUTH WEIGHTING	WP 8.0, PG 1, LINE 261	<u>0.03782</u>	0.03782	<u>0.03782</u>	0.03782	0.03782	0.03782	0.2269
21	BA-WV WEIGHTED COST	LINE 13 X LINE 14	\$1.45	\$2.37	\$1.23	\$2.34	\$1.48	\$0.42	\$9.29

EXHIBIT PAGE 4 OF 4

## PHYSICAL COLLOCATION BELL ATLANTIC: DC, DE, MD, NJ, PA, VA & WV FCC - 1

	<u>A</u>	<u>B</u>	<u>c</u>	D	<u>E</u>	<u>E</u>	<u>G</u>	Ħ	Ī
				COST OF	INCOME			OTHER	
LINE NO.	ITEM	SOURCE	DEPRECIATION	CAPITAL	TAX	MAINT.	ADMIN.	TAXES	TOTAL
1	WASHINGTON, DC	WP 1.1, PG 1, LINES 2 THRU 7	\$26.07	\$42.51	\$22.46	\$41.16	\$44.58	\$4.63	\$181.41
2	BA-SOUTH WEIGHTING	WP 8.0, PG 1, LINE 26C	0.03644	<u>0.03644</u>	0.03644	0.03644	0.03644	0.03644	0.21864
3	BA-DC WEIGHTED COST	LINE 1 X LINE 2	\$0.95	\$1.55	\$0.82	\$1.50	\$1.62	\$0.17	\$6.61
4	DELAWARE	WP 2.1, PG 1, LINES 2 THRU 7	\$30.57	\$50.60	\$26.03	\$53.31	\$24.43	\$7.08	\$192.02
5	BA-SOUTH WEIGHTING	WP 8.0, PG 1, LINE 26D	0.02566	0.02566	0.02566	0.02566	0.02566	0.02566	0.1540
6	BA-DE WEIGHTED COST	LINE 4 X LINE 5	\$0.78	\$1.30	\$0.67	\$1.37	\$0.63	\$0.18	\$4.93
7	MARYLAND	WP 3.1, PG 1, LINES 2 THRU 7	\$30.32	\$48.06	\$23.62	\$37.82	\$34.64	\$14.17	\$188.63
8	BA-SOUTH WEIGHTING	WP 8.0, PG 1, LINE 26E	<u>0.16245</u>	0.16245	0.16245	0.16245	0.16245	0.16245	0.9747
9	BA-MD WEIGHTED COST	LINE 7 X LINE 8	\$4.93	\$7.81	\$3.84	\$6.14	\$5.63	\$2.30	\$30.64
10	NEW JERSEY	WP 4.1, PG 1, LINES 2 THRU 7	\$28.25	\$45.75	\$23.73	\$42.04	\$33.09	\$9.50	\$182.36
11	BA-SOUTH WEIGHTING	WP 8.0, PG 1, LINE 26F	<u>0.29196</u>	0.29196	0.29196	0.29196	0.29196	0.29196	<u>1.7518</u>
12	BA-NJ WEIGHTED COST	LINE 10 X LINE 11	\$8.25	\$13.36	\$6.93	\$12.27	\$9.66	\$2.77	\$53.24
13	PENNSYLVANIA	WP 5.1, PG 1, LINES 2 THRU 7	\$30.62	\$49.03	\$26.11	\$43.76	\$33.03	\$7.45	\$190.00
14	BA-SOUTH WEIGHTING	WP 8.0, PG 1, LINE 26G	<u>0.29019</u>	<u>0.29019</u>	0.29019	0.29019	0.29019	0.29019	<u>1.7411</u>
15	BA-PA WEIGHTED COST	LINE 13 X LINE 14	\$8.88	\$14.23	\$7.58	\$12.70	\$9.58	\$2.16	\$55.14
16	VIRGINIA	WP 6.1, PG 1, LINES 2 THRU 7	\$29.78	\$47.39	\$22.66	\$40.78	\$30.96	\$6.46	\$178.03
· 17	BA-SOUTH WEIGHTING	WP 8.0, PG 1, LINE 26H	<u>0.15549</u>	<u>0.15549</u>	0.15549	0.15549	<u>0.15549</u>	0.15549	0.9329
18	BA-VA WEIGHTED COST	LINE 10 X LINE 11	\$4.63	\$7.37	\$3.52	\$6.34	<b>\$4</b> .81	\$1.00	\$27.68
19	WEST VIRGINIA	WP 7.1, PG 1, LINES 2 THRU 7	\$39.13	\$63.99	\$33.19	\$63.10	\$39.81	\$11.37	\$250.59
20	BA-SOUTH WEIGHTING	WP 8.0, PG 1, LINE 261	0.03782	0.03782	0.03782	0.03782	0.03782	0.03782	0.2269
21	BA-WV WEIGHTED COST	LINE 13 X LINE 14	\$1.48	\$2.42	\$1.26	\$2.39	\$1.51	\$0.43	\$9.48

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#### PHYSICAL COLLOCATION Verizon - Washington, DC FCC - 1

	<u>A</u>	<u>B</u>	<u>c</u>	D	<u>E</u>	<u>E</u>
	<u>ITEM</u>	SOURCE	LAND	BLDG	SWITCH EQPT.	TOTAL INVEST
1	TOTAL POWER PLANT UNIT INVESTMENT	WP 1.0, PG 3, LINE 10	-	-	\$221.40	\$221.40
2	EF&I FACTOR - FRC 377C	WP 8.0, PG 1, LINE 24C	-	-	2.7852	2.7852
3	INSTALLED INVESTMENT (NRC)	LINE 1 x LINE 2	-	-	\$616.64	\$616.64
4	UTILIZATION FACTOR	ENGINEERING	-	-	1.0000	1.0000
5	TOTAL IN-PLACE INVESTMENT	LINE 3 x LINE 4	-	-	\$616.64	\$616.64
6	LAND INVESTMENT FACTOR	WP 8.0, PG 1, LINE 22C	0.0092	-	-	0.0092
7	BUILDING INVESTMENT FACTOR	WP 8.0, PG 1, LINE 23C	-	0.1523	-	0.1523
8	LAND INVESTMENT	LINE 5E x LINE 6C	\$5.65		-	\$5.65
9	BUILDING INVESTMENT	LINE 5E x LINE 7D	-	\$93.90	-	\$93.90
10	TOTAL UNIT INVESTMENT	LINE 5E + LINE 8C + LINE 9D	\$5.65	\$93.90	\$616.64	\$716.19
11	WEIGHTED UNIT INVESTMENT	INE 10 x WP 6.0, PG 1, LINE 26C	\$0.21	\$3.42	\$22.47	\$26.10

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#### PHYSICAL COLLOCATION Verizon - Washington, DC FCC - 1

	A	<u>B</u>	<u>c</u>	<u>D</u>	<u>E</u>	<u>F</u>
	ITEM	SOURCE	LAND	BLDG	CKT EQPT.	TOTAL INVEST
1	TOTAL UNIT INVESTMENT	WP 1.0, PG 2 LINE 10	\$5.65	\$93.90	\$616.64	\$716.19
2	DEPRECIATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.00	\$1.55	\$24.56	\$26.11
3	COST OF MONEY	LINE 1 X WP 8.0 - ACF FACTOR	\$0.64	\$8.08	\$33.85	\$42.56
4	INCOME TAX	LINE 1 X WP 8.0 - ACF FACTOR	\$0.34	\$4.26	\$17.89	\$22.49
5	MAINTENANCE	LINE 1 X WP 8.0 - ACF FACTOR	\$0.05	\$0.85	\$40.30	\$41.21
6	ADMINISTRATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.35	\$5.85	\$38.43	\$44.64
7	OTHER TAX	LINE 1 X WP 8.0 - ACF FACTOR	<u>\$0.16</u>	<u>\$2.60</u>	<u>\$1.88</u>	<u>\$4.64</u>
8	ANNUAL DIRECT COST	SUM (LINE 2 THRU LINE 7)	\$1.54	\$23.19	<b>\$1</b> 56.91	\$181.64
9	WEIGHTED UNIT INVESTMENT	LINE 8 x WP 8.0, PG 1, LINE 26C	\$0.06	\$0.85	\$5.72	\$6.62

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### PHYSICAL COLLOCATION Verizon - Washington, DC FCC NO. 1

#### DC POWER COST DEVELOPMENT - LESS THAN OR EQUAL TO 60 AMPS

	A	В	Ċ	ō	E
LINE NO.	ITEM	SOURCE	METRO	URBAN	SUBURBAN
	Microprocessor Plant (BUSS BAR)				
1	AMP	Engineering	5,000	2,600	2,600
2	Material	Engineering	\$27,154	\$23,879	\$23,879
3	Unit Investment Per AMP	(L2 / <b>L1</b> )	<b>\$</b> 5.4 <b>3</b>	\$9.18	\$9.18
4	Statewide Weighting	WP 8 0, Col C, Lns 27-30	0.5982	0.3750	0.0268
5	Statewide Unit Investment Per AMP	\$6.94	\$3.25	\$3.44	\$0.25
	Rectifiers				
6	Quantity	Engineering	6	6	6
7	AMPS per unit	Engineering	400	200	200
8	Tot. AMPS	( L6 * L7)	2,400	1,200	1,200
9	Utilization	(L6-1) / L6)	83.33%	83.33%	83.33%
10	Material	Engineering	\$55,502	\$42,046	\$42,046
11	Total Investment	(L10 / L9)	\$66,602	\$50,455	\$50,455
12	Unit Investment Per AMP	(L11 / L8)	\$27.75	\$42.05	\$42.05
13	Statewide Weighting	WP 8.0, Col C, Lns 27-30	0.5982	0.3750	0.0268
14	Statewide Unit Investment Per AMP	\$33.49	\$16.60	\$15.77	\$1.13
	<u>Batteries</u>				
15	Strings	Engineering	3	3	3
16	AMPs per String	Engineering	688	310	310
17	Tot. AMPS	(L15 * L16)	2,064	930	930
18	Total Investment	Engineering	\$80,952	\$34,965	\$34,965
19	Unit Investment Per AMP	(L18 / L17)	\$39.22	\$37.60	\$37.60
20	Statewide Weighting	WP 8.0, Col C, Lns 27-30	0.5982	0.3750	0.0268
21	Statewide Unit Investment Per AMP	\$38.57	\$23.46	\$14.10	\$1.01
	Automatic Breaker				
22	AMP per Breaker	Engineering	1,600	1,200	800
23	Total Investment	Engineering	\$50,000	\$40,000	\$35,000
24	Unit Investment Per AMP	(L23 / L22)	\$31.25	\$33.33	\$43.75
25	Statewide Weighting	WP 8.0, Col C, Lns 27-30	0.5982	0.3750	0.0268
26	Statewide Unit Investment Per AMP	\$32.37	\$18.69	\$12.50	\$1.17
	Power Distribution Service Cabinet				
27	Amps	Engineering	1,600	800	400
28	Material	Engineering	\$13,976	\$7,788	\$5,677
29	Unit Investment Per AMP	(L28 / L27)	\$8.74	\$9.74	\$14.19
30	Statewide Weighting	WP 8.0, Col C, Lns 27-30	0.5982	0.3750	0.0268
31	Statewide Unit Investment Per AMP	\$9.26	\$5.23	\$3.65	\$0.38
	Emergency engine/turbine (auto start)				
32	AMP Capacity	Engineering	2,605	1,736	1,111
33	Utilization	Engineering	70%	70%	70%
34	Utilized AMPS	(L32 * L33)	1,824	1,215	778
35	Emerg, Engine Invest.	Engineering	\$130,765	\$78,249	\$53,871
36	Conduit/Emer Lights	Engineering	\$45,629	\$30,487	\$23,332
37	Total Investment	(L35 + L36)	\$176,394	\$108,736	\$77,203
38	Unit Investment Per AMP	(L37 / L34)	\$96.73	\$89.48	\$99.27
39	Statewide Weighting	WP 8.0, Col C, Lns 27-30	0.5982	0.3750	0.0268
40	Statewide Unit Investment Per AMP	\$94.08	<b>\$</b> 57. <b>87</b>	\$33.55	\$2.66
	Battery Distribution Fuse Bay				
41	AMP Capacity	Engineering	800	800	800
42	Material	Engineering	\$5,355	\$5,355	\$5,355
43	Unit Investment Per AMP	(L42 / L41)	\$6.69	\$6.69	\$6.69
44	Statewide Weighting	WP 8.0, Col C, Lns 27-30	0.5982	0.3750	0 0268
45	Statewide Unit Investment Per AMP	\$6.69	\$4.00	\$2.51	\$0.18
	Total Unit Investment - (Less than or				
46	Equal to 60 AMP's) - Sum Lines	\$221.40			
	(5C+14C+21C+26C+31C+40C+45C)				
	(30.140-210-200-310-400-430)				

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#### PHYSICAL COLLOCATION Verizon - Washington, DC FCC - 1

	<u>A</u>	В	<u>c</u>	<u>D</u>	<u>E</u>	Ē
	<u>ITEM</u>	SOURCE	LAND	BLDG	SWITCH EQPT.	TOTAL INVEST
1	TOTAL POWER PLANT UNIT INVESTMENT	WP 1.1, PG 3, LINE 10	-	-	\$221.12	\$221.12
2	EF&I FACTOR - FRC 377C	WP 8.0, PG 1, LINE 24C	-	-	2.7852	2.7852
3	INSTALLED INVESTMENT (NRC)	LINE 1 x LINE 2	-	-	\$615.86	\$615.86
4	UTILIZATION FACTOR	ENGINEERING	-	-	1.0000	1.0000
5	TOTAL IN-PLACE INVESTMENT	LINE 3 x LINE 4	-	-	\$615.86	\$615.86
6	LAND INVESTMENT FACTOR	WP 8.0, PG 1, LINE 22C	0.0092	-	-	0.0092
7	BUILDING INVESTMENT FACTOR	WP 8.0, PG 1, LINE 23C	-	0.1523	-	0.1523
8	LAND INVESTMENT	LINE 5E x LINE 6C	\$5.64		•	\$5.64
9	BUILDING INVESTMENT	LINE 5E x LINE 7D	-	\$93.78	-	\$93.78
10	TOTAL UNIT INVESTMENT	LINE 5E + LINE 8C + LINE 9D	\$5.64	\$93.78	\$615.86	\$715.28
11	WEIGHTED UNIT INVESTMENT	INE 10 x WP 6.0, PG 1, LINE 26C	\$0.21	\$3.42	\$22.44	\$26.06

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#### PHYSICAL COLLOCATION Verizon - Washington, DC FCC - 1

	<u>A</u>	<u>8</u>	<u>c</u>	<u>D</u>	Ē	<u>F</u>
	ITEM	SOURCE	LAND	BLDG	CKT EQPT.	TOTAL INVEST
1	TOTAL UNIT INVESTMENT	WP 1.1, PG 2 LINE 10	\$5.64	\$93.78	\$615.86	\$715.28
2	DEPRECIATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.00	\$1.55	\$24.53	\$26.07
3	COST OF MONEY	LINE 1 X WP 8.0 - ACF FACTOR	\$0.64	\$8.06	\$33.80	\$42.51
4	INCOME TAX	LINE 1 X WP 8.0 - ACF FACTOR	\$0.34	\$4.26	\$17.87	\$22.46
5	MAINTENANCE	LINE 1 X WP 8.0 - ACF FACTOR	\$0.05	\$0.85	\$40.25	\$41.16
6	ADMINISTRATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.35	\$5.84	\$38.38	\$44.58
7	OTHER TAX	LINE 1 X WP 8.0 - ACF FACTOR	<u>\$0.16</u>	<u>\$2.60</u>	<u>\$1.88</u>	<u>\$4.63</u>
8	ANNUAL DIRECT COST	SUM (LINE 2 THRU LINE 7)	\$1.54	\$23.16	\$156.71	\$181.41
9	WEIGHTED UNIT INVESTMENT	LINE 8 x WP 8.0, PG 1, LINE 26C	\$0.06	\$0.84	\$5.71	\$6.61

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#### PHYSICAL COLLOCATION Verizon - Washington, DC FCC NO. 1

#### DC POWER COST DEVELOPMENT - GREATER THAN 60 AMPS

	A	<u>B</u>	<u>c</u>	D	Ē
LINE NO.	ITEM	SOURCE	METRO	URBAN	SUBURBAN
	Microprocessor Plant (BUSS BAR)				
1	AMP	Engineering	5,000	2,600	2,600
2	Material	Engineering	\$27,154	\$23,879	\$23,879
3	Unit investment Per AMP	(L2 / L1)	\$5.43	\$9.18	\$9.18
4	Statewide Weighting	WP 8.0, Col C, Lns 27-30	0.5982	0.3750	0.0268
5	Statewide Unit Investment Per AMP	\$6.94	\$3,25	\$3.44	\$0.25
	<u>Rectifiers</u>				
6	Quantity	Engineering	6	6	6
7	AMPS per unit	Engineering	400	200	200
8	Tot. AMPS	( L6 * L7)	2,400	1,200	1,200
9	Utilization	(L6-1) / L6)	83.33%	83.33%	83.33%
10	Material Tatal (automorphism)	Engineering	\$55,502	\$42,046	\$42,046
11 12	Total Investment	(L10 / L9)	\$66,602 \$27,75	\$50.455 \$42.05	\$50,455 \$42.05
13	Unit Investment Per AMP Statewide Weighting	(£11 / L8) WP 8.0, Col C, Lns 27-30	0.5982	\$42.05 0.3750	0.0268
-			,		
14	Statewide Unit Investment Per AMP	\$33.49	\$16.60	<b>\$1</b> 5.77	\$1.13
4-	<u>Batteries</u>	Footooodoo		2	
15	Strings	Engineering Engineering	3 688	3 310	3 310
16 17	AMPs per String Tot: AMPS	(L15 * L16)	2,064	930	930
18	Total Investment	Engineering	\$80,952	\$34,965	\$34.965
19	Unit Investment Per AMP	(L18 / L17)	\$39.22	\$37.60	\$37.60
20	Statewide Weighting	WP 8.0, Col C, Lns 27-30	0.5982	0.3750	0.0268
21	Statewide Unit Investment Per AMP	\$38.57	\$23.46	\$14.10	\$1.01
	Automatic Breaker		•		
22	Automatic Breaker  AMP per Breaker	Engineering	1 600	1,200	800
23	Total Investment	Engineering	1,600 \$50,000	\$40,000	\$35,000
24	Unit Investment Per AMP	(L23 / L22)	\$31.25	\$33.33	\$43.75
25	Statewide Weighting	WP 8.0, Col C, Lns 27-30	0.5982	0.3750	0.0268
26	Statewide Unit Investment Per AMP	\$32.37	\$18.69	\$12.50	\$1.17
	Power Distribution Service Cabinet				
27	Amps	Engineering	1,600	800	400
28	Material	Engineering	\$13,976	\$7,788	<b>\$</b> 5,677
29	Unit Investment Per AMP	(L28 / L27)	\$8.74	\$9.74	\$14.19
30	Statewide Weighting	WP 8.0, Col C, Lns 27-30	0.5982	0.3750	0.0268
31	Statewide Unit Investment Per AMP	\$9.26	\$5.23	\$3.65	\$0.38
	Emergency engine/turbine (auto start)				
32	AMP Capacity	Engineering	2,605	1,736	1,111
33	Utilization	Engineering	70%	70%	70%
34	Utilized AMPS	(L32 * L33)	1,824	1,215	778
35	Emerg. Engine Invest.	Engineering	\$130,765	\$78,249	\$53,871
36	Conduit/Emer Lights	Engineering	\$45,629	\$30,487	\$23,332
37	Total Investment	(L35 + L36)	\$176,394	\$108,736	\$77,203
38	Unit Investment Per AMP	(L37 / L34)	\$96.73	\$89.48	\$99.27
39	Statewide Weighting	WP 8.0, Col C, Lns 27-30	0.5982	0.3750	0.0268
40	Statewide Unit Investment Per AMP	\$94.08	<b>\$57</b> .87	\$33.55	\$2.66
	Power Plant Distribution Bay				
41	AMP Capacity	Engineering	2,600	1,200	1,200
42	Material	Engineering	\$12,747	\$10,388	\$10,388
43	Unit Investment Per AMP	(L42 / L41)	\$4.90	\$8.66	\$8.66
44	Statewide Weighting	WP 8.0, Col C, Lns 27-30	0.5982	0.3750	0.0268
45	Statewide Unit Investment Per AMP	\$6.41	\$2.93	\$3.25	\$0.23
	Total Unit Investment - (Greater than 60				
4.		6221.40			
41	AMPs) -Sum Lines	\$221.12			
	(5C+14C+21C+26C+31C+40C + 45C)				

WORKPAPER 2.0 PAGE 2 OF 3

#### PHYSICAL COLLOCATION Verizon - Delaware FCC - 1

	<u>A</u>	<u>B</u>	<u>c</u>	D	<u>E</u>	<u>F</u>
	<u>ITEM</u>	SOURCE	LAND	BLDG	SWITCH EQPT.	TOTAL INVEST
1	TOTAL POWER PLANT UNIT INVESTMENT	WP 2.0, PG 3, LINE 10	-	•	\$247.50	\$247.50
2	EF&I FACTOR - FRC 377C	WP 8.0, PG 1, LINE 24D	-	-	2.7852	2.7852
3	INSTALLED INVESTMENT (NRC)	LINE 1 x LINE 2	-	-	\$689.35	\$689.35
4	UTILIZATION FACTOR	ENGINEERING	-	-	1.0000	1.0000
5	TOTAL IN-PLACE INVESTMENT	LINE 3 x LINE 4	-	-	\$689.35	\$689.35
6	LAND INVESTMENT FACTOR	WP 8.0, PG 1, LINE 22D	0.0094	-	-	0.0094
7	BUILDING INVESTMENT FACTOR	WP 8.0, PG 1, LINE 23D	-	0.1994	-	0.1994
8	LAND INVESTMENT	LINE 5E x LINE 6C	\$6.47		-	\$6.47
9	BUILDING INVESTMENT	LINE 5E x LINE 7D	-	\$137.48	-	\$137.48
10	TOTAL UNIT INVESTMENT	LINE 5E + LINE 8C + LINE 9D	\$6.47	\$137.48	\$689.35	\$833.30
11	WEIGHTED UNIT INVESTMENT	INE 10 x WP 8.0, PG 1, LINE 26D	\$0.17	\$3.53	\$17.69	\$21.38

WORKPAPER 2.0 PAGE 1 OF 3

#### PHYSICAL COLLOCATION Verizon - Delaware FCC - 1

	<u>A</u> <u>B</u>		<u>c</u>	<u>D</u>	<u>E</u>	£
	ITEM	SOURCE	LAND	BLDG	CKT EQPT.	TOTAL INVEST
1	TOTAL UNIT INVESTMENT	WP 2.0, PG 2 LINE 10	\$6.47	\$137.48	\$689.35	\$833.30
2	DEPRECIATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.00	\$2.94	\$27.41	\$30.35
3	COST OF MONEY	LINE 1 X WP 8.0 - ACF FACTOR	\$0.73	\$11.47	\$38.04	\$50.24
4	INCOME TAX	LINE 1 X WP 8.0 - ACF FACTOR	\$0.38	\$5.90	\$19.57	\$25.85
5	MAINTENANCE	LINE 1 X WP 8.0 - ACF FACTOR	\$0.17	\$3.67	\$49.09	\$52.93
6	ADMINISTRATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.19	\$4.00	\$20.06	\$24.25
7	OTHER TAX	LINE 1 X WP 8.0 - ACF FACTOR	<u>\$0.12</u>	<u>\$2.64</u>	<u>\$4.26</u>	<u>\$7.03</u>
8	ANNUAL DIRECT COST	SUM (LINE 2 THRU LINE 7)	\$1.59	\$30.62	\$158.43	\$190.64
9	WEIGHTED UNIT INVESTMENT	LINE 8 x WP 8.0, PG 1, LINE 26D	\$0.04	\$0.79	\$4.07	\$4.89

#### WORKPAPER 2.0 PAGE 3 OF 3

### PHYSICAL COLLOCATION Verizon - Delaware FCC NO. 1

#### DC POWER COST DEVELOPMENT - LESS THAN OR EQUAL TO 60 AMPS

	DC FOWER COST DEVELOPMENT - LESS THAN ON EGOAL TO GO AMITS							
	A	<u>B</u>	Ĉ	D	Ē	<u>F</u>		
LINE NO.	ITEM	SOURCE	METRO	URBAN	SUBURBAN	RURAL		
		<del></del>						
	Microprocessor Plant (BUSS BAR)							
1	AMP	Engineering	5,000	2,600	2,600	600		
2	Material	Engineering	\$27,154 \$5.43	\$23,879 \$9.18	\$23,879 \$9.18	\$18,349 \$30.58		
3 4	Unit Investment Per AMP Statewide Weighting	(£2 / £1) WP 8.0, Col D, Lns 27-30	0.3027	0.3008	0.2759	0.1207		
5	Statewide Unit Investment Per AMP	\$10.63	\$1.64	\$2.76	\$2.53	\$3.69		
	Rectifiers							
6	Quantity	Engineering	6	6	6	7		
7	AMPS per unit	Engineering	400	200	200	50		
8	Tot. AMPS	( L6 * L7)	2,400	1,200	1,200	350		
9	Utilization	(L6-1) / L6)	83.33%	83.33%	83.33%	85.71%		
10	Material	Engineering	\$55,502	\$42,046	\$42,046	\$15,900		
11 12	Total Investment	(L10 / L9)	\$66,602 \$27.75	\$50,455 \$42.05	\$50,455 \$42.05	\$18,550 \$53.00		
13	Unit Investment Per AMP Statewide Weighting	(L11 / L8) WP 8.0, Col D, Lns 27-30	0.3027	0.3008	0.2759	0.1207		
14	Statewide Unit Investment Per AMP	\$39.05	\$8.40	\$12.65	\$11.60	\$6.40		
• • •	Otalewide Offic #1465thieff 1 61 Aug	400.00	45.40	¥12.00	<b>4</b> 11.00	<b>4</b> 0.40		
	<u>Batteries</u>							
15	Strings	Engineering	3	3	3	2		
16	AMPs per String	Engineering	688	310	310	310		
17	Tot. AMPS	(L15 * L16)	2,064	930	930	620		
18	Total Investment	Engineering	\$80,952	\$34,965	\$34,965	\$23,310		
19 20	Unit Investment Per AMP Statewide Weighting	(L18 / L17) WP 8.0, Col D, Lns 27-30	\$39.22 0.3027	\$37.60 0.3008	\$37.60 0.2759	\$37.60 0.1207		
						-		
21	Statewide Unit Investment Per AMP	\$38.09	\$11.87	\$11.31	\$10.37	\$4 54		
	Automatic Breaker							
22	AMP per Breaker	Engineering	1,600	1,200	800	400		
23	Total Investment	Engineering	\$50,000	\$40,000	\$35,000	\$20,000		
24	Unit Investment Per AMP	(L23 / L22)	\$31.25	<b>\$</b> 33.33	\$43.75	\$50.00		
25	Statewide Weighting	WP 8.0, Col D, Lns 27-30	0.3027	0.3008	0.2759	0.1207		
26	Statewide Unit Investment Per AMP	\$37.59	\$9.46	\$10. <b>03</b>	\$12.07	\$6.04		
	Power Distribution Service Cabinet							
27	Amps	Engineering	1,600	800	400	400		
28	Material	Engineering	\$13,976	\$7,788	\$5,677	\$3,467		
29	Unit Investment Per AMP	(L28 / L27)	\$8.74	\$9.74	\$14.19	\$8.67		
30	Statewide Weighting	WP 8.0, Col D, Lns 27-30	0.3027	0.3008	0.2759	0.1207		
31	Statewide Unit Investment Per AMP	\$10.53	\$2.64	\$2.93	\$3.92	\$1.05		
00	Emergency engine/turbine (auto start)		0.005	4 700		40.4		
32 33	AMP Capacity	Engineering	2,605 70%	1,736 70%	1,111 70%	434 70%		
33 34	Utilization Utilized AMPS	Engineering (L32 * L33)	1,824	1,215	778	304		
35	Emerg. Engine Invest.	Engineering	\$130,765	\$78,249	\$53,B71	\$41,874		
36	Conduit/Emer Lights	Engineering	\$45,629	\$30,487	\$23,332	\$11,810		
37	Total Investment	(L35 + L36)	\$176,394	\$108,736	\$77,203	\$53,684		
38	Unit Investment Per AMP	(L37 / L34)	\$96.73	\$89.48	\$99.27	\$176.71		
39	Statewide Weighting	WP 8.0, Col D, Lns 27-30	0.3027	0.3008	0.2759	0.1207		
40	Statewide Unit Investment Per AMP	\$104.91	\$29.28	\$26.92	\$27.39	\$21.33		
	Battery Distribution Fuse Bay							
41	AMP Capacity	Engineering	800	800	800	800		
42	Material	Engineering	\$5,355	<b>\$</b> 5,355	\$5,355	\$5,355		
43	Unit Investment Per AMP	(L42 / L41)	\$6.69	\$6.69	\$6.69	\$6.69		
44	Statewide Weighting	WP 8.0, Col D, Lns 27-30	0.3027	0.3008	0 2759	0.1207		
45	Statewide Unit Investment Per AMP	\$6.69	\$2.03	\$2.01	\$1.85	\$0.81		
	Total Unit Investment - (Less than or							
46	Equal to 60 AMP's) - Sum Lines	\$247.50						
	(5C+14C+21C+26C+31C+40C+45C)							

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#### PHYSICAL COLLOCATION Verizon - Delaware FCC - 1

	<u>A</u>	<u>B</u>	<u>c</u>	D	<u>E</u>	E
	<u>ITEM</u>	SOURCE	LAND	BLDG	SWITCH EQPT.	TOTAL INVEST
1	TOTAL POWER PLANT UNIT INVESTMENT	WP 2.0, PG 3, LINE 10	-	-	\$249.29	\$249.29
2	EF&I FACTOR - FRC 377C	WP 8.0, PG 1, LINE 24D	-	-	2.7852	2.7852
3	INSTALLED INVESTMENT (NRC)	LINE 1 x LINE 2	-	-	\$694.34	\$694.34
4	UTILIZATION FACTOR	ENGINEERING	-	-	1.0000	1.0000
5	TOTAL IN-PLACE INVESTMENT	LINE 3 x LINE 4	-	-	\$694.34	\$694.34
6	LAND INVESTMENT FACTOR	WP 8.0, PG 1, LINE 22D	0.0094	-	-	0.0094
7	BUILDING INVESTMENT FACTOR	WP 8.0, PG 1, LINE 23D	-	0.1994	-	0.1994
8	LAND INVESTMENT	LINE 5E x LINE 6C	\$6.52		-	\$6.52
9	BUILDING INVESTMENT	LINE 5E x LINE 7D	-	\$138.48	-	\$138.48
10	TOTAL UNIT INVESTMENT	LINE 5E + LINE 8C + LINE 9D	\$6.52	\$138.48	\$694.34	\$839.33
11	WEIGHTED UNIT INVESTMENT	INE 10 x WP 8.0, PG 1, LINE 26D	\$0.17	\$3.55	\$17.82	\$21.54

WORKPAPER 2.1 PAGE 1 OF 3

#### PHYSICAL COLLOCATION Verizon - Delaware FCC - 1

	<u>A</u> ₿		<u>c</u>	D	Ē	E
	<u>ITEM</u>	SOURCE	LAND	BLDG	CKT EQPT.	TOTAL INVEST
1	TOTAL UNIT INVESTMENT	WP 2.0, PG 2 LINE 10	\$6.52	\$138.48	\$694.34	\$839.33
2	DEPRECIATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.00	\$2.96	\$27.60	\$30.57
3	COST OF MONEY	LINE 1 X WP 8.0 - ACF FACTOR	\$0.74	\$11.55	\$38.31	\$50.60
4	INCOME TAX	LINE 1 X WP 8.0 - ACF FACTOR	\$0.38	<b>\$</b> 5. <b>94</b>	\$19.71	\$26.03
5	MAINTENANCE	LINE 1 X WP 8.0 - ACF FACTOR	\$0.17	\$3.70	\$49.44	\$53.31
6	ADMINISTRATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.19	\$4.03	\$20.21	\$24.43
7	OTHER TAX	LINE 1 X WP 8.0 - ACF FACTOR	<u>\$0.13</u>	\$2.66	\$4.29	\$7.08
8	ANNUAL DIRECT COST	SUM (LINE 2 THRU LINE 7)	\$1.60	\$30.84	\$159.58	\$192.02
9	WEIGHTED UNIT INVESTMENT	LINE 8 x WP 8.0, PG 1, LINE 26D	\$0.04	\$0.79	\$4.09	\$4.93

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### PHYSICAL COLLOCATION Verizon - Delaware FCC NO. 1

#### DC POWER - GREATER THAN 60 AMPS

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	<u> </u>	<u>₿</u>	Č	ō	E	E
LINE NO.	ITEM	SOURCE	METRO	URBAN	SUBURBAN	RURAL
			WELL,5	**************************************		1121112
	Microprocessor Plant (BUSS BAR)		5.000			
1	AMP	Engineering	5,000	2,600	2,600	600
2	Material	Engineering	\$27,154	\$23,879	\$23,879	\$18,349
3	Unit Investment Per AMP	(L2/L1)	\$5.43	\$9.18	\$9.18	\$30.58
4	Statewide Weighting	WP 8.0, Col D, Lns 27-30	0.3027	0.3008	0.2759	0.1207
5	Statewide Unit Investment Per AMP	\$10.63	\$1.64	\$2.76	\$2.53	\$3.69
	Rectifiers					
6	Quantity	Engineering	6	6	6	7
7	AMPS per unit	Engineering	400	200	200	50
8	Tot. AMPS	( L6 * L7)	2,400	1,200	1,200	350
9	Utilization	(L6-1) / L6)	83.33%	83.33%	83.33%	85.71%
10	Material	Engineering	\$55,502	\$42,046	\$42,046	\$15,900
11	Total Investment	(L10 / L9)	\$66,602	\$50,455	\$50,455	\$18,550
12	Unit Investment Per AMP	(L11 / L8)	\$27.75	\$42.05	\$42.05	\$53.00
13	Statewide Weighting	WP 8.0, Col D, Lns 27-30	0.3027	0.3008	0.2759	0.1207
14	Statewide Unit Investment Per AMP	\$39.05	\$8.40	\$12.65	\$11.60	\$6.40
	Batteries .					
15	Strings	Engineering	3	3	3	2
16	AMPs per String	Engineering	688	310	310	310
17	Tot. AMPS	(L15 ° L16)	2,064	930	930	620
18	Total Investment	Engineering	\$80,952	\$34,965	\$34,965	\$23,310
19	Unit Investment Per AMP	(L18 / L17)	\$39.22	\$37.60	\$37.60	\$37.60
20	Statewide Weighting	WP 8.0, Col D. Lns 27-30	0.3027	0.3008	0.2759	0.1207
21	Statewide Unit Investment Per AMP	\$38.09	\$11.87	\$11.31	\$10.37	\$4.54
	Automatic Breaker	_				
22	AMP per Breaker	Engineering	1,600	1,200	800	400
23	Total Investment	Engineering	\$50,000	\$40,000	\$35,000	\$20,000
24	Unit Investment Per AMP	(L23 / L22)	\$31.25	\$33.33	\$43.75	\$50.00
25	Statewide Weighting	WP 8.0, Col D, Lns 27-30	0.3027	0.3008	0.2759	0.1207
26	Statewide Unit Investment Per AMP	\$37.59	\$9.46	\$10.03	\$12.07	\$6.04
	Power Distribution Service Cabinet					
27	Amps	Engineering	1 600	800	400	400
28	Material	Engineering	1,600			
26 29	Unit Investment Per AMP	Engineering	\$13,976	\$7,788	\$5,677	\$3,467
30	Statewide Weighting	(L28 / L27) WP 8.0, Col D, Lns 27-30	\$8.74 0.3037	\$9.74	\$14.19 0.2750	\$8.67 0.4307
			0.3027	0.3008	0.2759	0.1207
31	Statewide Unit Investment Per AMP	\$10.53	\$2.64	\$2.93	\$3.92	\$1.05
	Emergency engine/turbine (auto start)					
32	AMP Capacity	Engineering	2,605	1,736	1,111	434
33	Utilization	Engineering	70%	70%	70%	70%
34	Utilized AMPS	(L32 * L33)	1,824	1,215	778	304
35	Emerg. Engine Invest.	Engineering	\$130,765	\$78,249	\$53,871	\$41,874
36	Conduit/Emer Lights	Engineering	\$45,629	\$30,487	\$23,332	\$11,810
37	Total Investment	(L35 + L36)	\$176,394	\$108,736	\$77,203	\$53,684
38	Unit Investment Per AMP	(L37 / L34)	\$96.73	\$89.48	\$99.27	\$176.71
39	Statewide Weighting	WP 8.0, Col D, Lns 27-30	0.3027	0.3008	0.2759	0.1207
40	Statewide Unit Investment Per AMP	\$104.91				
40	Statewide Officinvestment Per AMP	\$104.91	\$29.28	<b>\$26.9</b> 2	\$27.39	\$21.33
	Power Plant Distribution Bay					
41	AMP Capacity	Engineering	2,600	1,200	1,200	300
42	Material	Engineering	\$12,747	\$10,388	\$10,388	\$4,993
43	Unit Investment Per AMP	(L42 / L41)	\$4.90	\$8.66	\$8.66	\$16.64
44	Statewide Weighting	WP 8.0, Col D, Lns 27-30	0.3027	0.3008	0.2759	0.1207
45	Statewide Unit Investment Per AMP	\$8.49	\$1,48	\$2.60	\$2.39	\$2.01
	The Committee of Party		<b>\$1,70</b>	<b>\$2.55</b>	<b>42.00</b>	<b>42.0</b> ,

Total Unit Investment - (Less than or Equal to 60 AMP's) - Sum Lines (5C+14C+21C+26C+31C+40C+45C)

46

\$249.29